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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete If Known

Applicati n Number	10/001,893
Filing Date	November 19, 2001
First Named Invent r	Jonathan J. Hull
Group Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007500US

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
XLB	1.	Adobe Premiere (video editing software) from Http://www.adobe.com (2002).	
XLB	2.	BOBICK et al. "A State Based Approach to the Representation and Recognition of Gesture," IEEE Trans. on Pattern Analysis and Machine Intelligence, pp. 1325-1337 (1997).	
XLB	3.	BORECZKY, J. et al. "An Interactive Comic Book Presentation for Exploring Video," Conference on Human factors in Computing Systems (CHI 2000), ACM Press, pp. 185-192, 2000.	
XLB	4.	BOYKIN et al, "Improving Broadcast News Segmentation Processing," IEEE Multimedia '99 (1999).	
XLB	5.	BOYKIN et al. " Machine learning of Event Segmentation for News on Demand," Communications of the ACM, 43:35-41(2000).	
XLB	6.	BROWN et al. "Automatic Content-Based Retrieval of Broadcast News," ACM Multimedia 5, San Francisco, CA (1995).	
XLB	7.	CAJ et al. "Integrated Multimedia Publishing -- Combining TV and Newspaper Content on Personal Channels," WWW8 Conference, 1999.	
XLB	8.	CHEN et al. "Emotion Recognition from Audiovisual Information," Proc. IEEE Workshop on Multimedia Signal Processing, Los Angeles, CA, USA, pp. 83-88 (1998).	
XLB	9.	CHEN et al. "VIBE: A Video Indexing and Browsing Environment," Proceedings of the SPIE Conference on Multimedia Storage and Archiving Systems September 20-22, 1999, Boston 3846:148-164 (1999).	
XLB	10.	CHIU et al. "NoteLook: Taking Notes in Meetings with Digital Video and Ink," ACM Multimedia 99 Orlando, (1999).	
XLB	11.	CHIU et al. "Automatically linking multimedia meeting documents by image matching," Proceedings of Hypertext '00. ACM, New York, pp. 244-245 (2000).	
XLB	12.	CHRISTEL et al. "Evolving Video Skims into Useful Multimedia Abstractions," Proceedings of the CHI '98 Conference on Human Factors in Computing Systems (Los Angeles, CA, April 1998), pp. 171 -178 (1998).	
XLB	13.	CHRISTEL et al. "Information Visualization within a Digital Video Library," Journal of Intelligent Information Systems 11:35-257 (1998).	
XLB	14.	DELLAERT et al. "Recognizing emotion in speech," Proceedings ICSLP 96. Fourth International Conference on Spoken Language Processing New York (Cat. No. 96TH8208). IEEE. Vol:1970-1973 (1996).	
XLB	15.	DIMITROVA et al. "Video Keyframe Extraction and Filtering: A Keyframe is not a Keyframe to Everyone," CIKM 1997:113-120 (1997).	

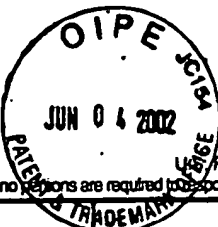
Examiner Signature	X. L. Baptista	Date Considered	6/7/04
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Sheet 2 of 5

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Group Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007500US

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
XLB	16.	DOERMANN et al. "Applying Algebraic and differential invariants for logo recognition," Machine Vision and Applications 9:73-88 (1998).	
XLB	17.	DONATO et al. "Classifying Facial Actions", IEEE Trans. on Pattern Analysis and Machine Intelligence, 21:974-889 (1999).	
XLB	18.	ESSA et al. "Coding Analysis Interpretation and Recognition of Facial Expressions, IEEE Trans. on Pattern Analysis and Machine Intelligence, 19:757-763 (1997).	
XLB	19.	Face recognition techniques described at web site http://www.visionics.com (2002).	
XLB	20.	FOOTE, Jonathan, et al. "An Intelligent Media Browser using Automatic Multimodal Analysis," ACM Multimedia 8, Bristol, UK (1998).	
XLB	21.	FURUI et al. "Japanese Broadcast News Transcription and Information Extraction," Communications of the ACM, 43(2):71-73, Feb 2000.	
XLB	22.	GAUVAIN et al. "Transcribing Broadcast News for Audio and Video Indexing," Communications of the ACM, 43:64-70 (2000).	
XLB	23.	GIBBON "Generating Hypermedia Documents from Transcriptions of Television Programs Using Parallel Text Alignment," <u>Handbook of Internet and Multimedia Systems and Applications</u> , David C. Gibbon; CRC Press, (1998).	
XLB	24.	GORDON "Using annotated video as an information retrieval interface," ACM Proceedings of the 5th International Conference on Intelligent User Interfaces New Orleans pp. 133 - 140 (2000)	
XLB	25.	HAUPTMANN et al. "Text, speech and vision for video segmentation: the informedia project," Proc. AAAI Fall Symp. Computational Models for Integrating Language and Vision, Boston, MA, Nov. 10-12, 1995.	
XLB	26.	HAUPTMANN et al. "Story Segmentation and Detection of Commercials in Broadcast News Video," Advances in Digital Libraries Conference, Santa Barbara, CA, April 22-23 1998.	
XLB	27.	HE et al. "Comparing Presentation Summaries: Slides vs. Reading vs. Listening," Conference on Human factors in Computing Systems (CHI 2000), April 1-6, 2000.	
XLB	28.	HECHT "Embedded data glyph Technology for Hardcopy Digital Documents," Proc. SPIE 2171:341-352 (1994).	

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X. L. Baertista

Date

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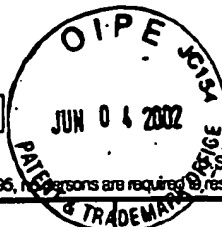
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Attorney Docket Number	015358-007500US

Sheet 3 of 5

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XLB	29.	HECHT "Printed Embedded Data Graphical User Interfaces," IEEE Computer, March 2001.	
XLB	30.	HU et al. "Multimedia Description Framework (MDF) for content descriptions of Audio/Video Documents," Fourth ACM Conference on Digital Libraries (DL '99) August 11-14, 1999.	
XLB	31.	IOFFE et al. "Finding people by sampling," Proc. International Conference on Computer Vision, pp. 1092-1097 (1999).	
XLB	32.	JIN et al. "Topic Tracking for Radio, TV Broadcast, and Newswire," Proceedings of the DARPA Broadcast News Workshop, Feb. 28-Mar 3, 1999, Herndon, VA.	
XLB	33.	KOMLODI et al. "Key Frame Preview Techniques for Video Browsing," (Proceedings of the 3rd ACM International Conference on Digital Libraries, June 23-28, 1998, Pittsburgh, pp. 118-125 (1998).	
XLB	34.	Li et al. "Automatic Text Detection and Tracking in Digital Video," IEEE Transactions on Image Processing - Special Issue on Image and Video Processing for Digital Libraries, 8:147-156 (2000).	
XLB	35.	Li et al. "Text Extraction and Recognition in Digital Video," Proceedings of Third IAPR Workshop on Document Analysis Systems, pp. 119-128, 1998.	
XLB	36.	Li et al. "VISION: a digital video library," Proceedings of the 1st ACM International Conference on Digital Libraries, pp. 19-27, 1998.	
XLB	37.	LIANG et al. "Practical video indexing and retrieval system SPIE 3240:294-303, (1988).	
XLB	38.	LIENHART et al. "On the Detection and Recognition of Television Commercials," Proc. IEEE Conf. on Multimedia Computing and Systems, Ottawa, Canada, pp. 509-518, June 1997.	
XLB	39.	MA et al. "An Indexing and Browsing System For Home Video," Invited paper, EUSIPCO '2000, 10th European Signal Processing Conference, 6-8, Sept. 2000, Tampere, Finland.	
XLB	40.	MAYBURY "News on Demand," Communications of the ACM, 43:33-34 (2000).	
XLB	41.	MAYBURY et al. "Segmentation, Content Extraction and Visualization of Broadcast News Video Using Multistream Analysis," AAAI Paper (1997).	
XLB	42.	MAYBURY et al. "Multimedia Summaries of Broadcast News," International Conference on Intelligent Information Systems pp. 447-449 (1997).	
XLB	43.	MAYBURY et al. "Multimedia Summaries of Broadcast News," International Conference on Intelligent Information Systems, December 8-10, 1997.	
XLB	44.	MERIALDO et al. "Automatic Construction of Personalized TV News Programs," Seventh ACM International Multimedia Conference, Orlando November 1999.	
XLB	45.	MERLINO et al. "Broadcast News Navigation using Story Segmentation," Advanced Information Systems Center, The MITRE Corporation (1997).	

Examiner
Signature

X. L. Bautista

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Considered

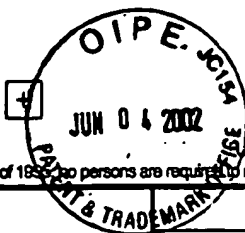
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicati n Number	10/001,893
		Filing Date	November 19, 2001
		First Named Invent r	Jonathan J. Hull
		Group Art Unit	2173
		Examiner Name	Unassigned
Sheet 4 of 5	Attorney Docket Number	015358-007500US	

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XLB	46.	MERLINO et al. "Broadcast News Processing Techniques," MITRE Technical Report, MTR 99B0000031, April 1999.	
XLB	47.	MOHAN "Text-based search of TV news stories," Proc. SPIE 2916:2-13 (1998).	
XLB	48.	MYERS et al. "Multi-View Intelligent Editor for Digital Video Libraries," First ACM and IEEE Joint Conference on Digital Libraries, June 24-28, 2001, Roanoke, VA, pp. 108-115.	
XLB	49.	OH et al. "Efficient and Cost-effective Techniques for Browsing and Indexing Large Video Databases," SIGMOD Conference 2000: 415-426	
XLB	50.	PHOTINA et al. "Improving acoustic models with captioned multimedia speech," Proceedings IEEE International Conference on Multimedia Computing and Systems, 2:767-71 (1999).	
XLB	51.	ROWLEY et al. "Neural network-based face detection," IEEE Transactions on Pattern Analysis and Machine Intelligence," 20:23-38 (1998).	
XLB	52.	SHAHRARAY et al. "Automated Authoring of Hypermedia Documents of Video Programs," ACM Multimedia 95, November 5-9, 1995, San Francisco, CA (1995).	
XLB	53.	SHAHRARAY et al. "Automatic generation of pictorial transcripts of video programs," Proceedings of the SPIE- Int. Soc. Opt. Eng. 2417:512-518 (1985).	
XLB	54.	SHAHRARAY et al. "Pictorial transcripts: multimedia processing applied to digital library creation," 1997 IEEE First Workshop on Multimedia Signal Processing pp. 581-586 (1997).	
XLB	55.	SMITH et al. "Video Skimming and Characterization through the Combination of Image and Language Understanding," Computer Vision and Pattern Recognition IEEE 1997.	
XLB	56.	SONMEZ et al. "Multiple speaker tracking and detection: handset normalization and duration scoring," Digital Signal Processing 10:133-143 (2000).	
XLB	57.	SUDA et al. "Logo and word matching using a general approach to signal registration," Fourth International Conference on Document Analysis and Recognition, Ulm, Germany, August 18-20, 1997, pp. 61-65.	
XLB	58.	TENNENHOUSE et al. "A software-oriented approach to the design of media processing environments," Proceedings of the IEEE International Conference on Multimedia Computing and Systems, pp. 435-444 (1994).	
XLB	59.	TONOMURA et al. "VideoMAP and VideoSpacelcon : tools for anatomizing video content," Proc. INTERCHI '93 ACM pp 131-136 (1993).	
XLB	60.	UCHIHASHI et al. "Summarizing Video Using a Shot Importance Measure and a Frame-Packing Algorithm," Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (Phoenix, AZ) 6:3041-3044 (1999).	
XLB	61.	UCHIHASHI et al. "Video Manga: Generating Semantically Meaningful Video Summaries," ACM Multimedia 99, Orlando, Florida, October 30-November 5, 1999.	
XLB	62.	Video content management and publishing software from Virage http://www.virage.com (2002).	

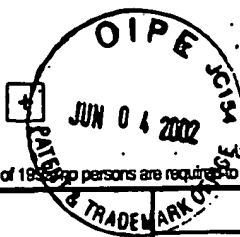
Examiner Signature	<i>X.L. Bautista</i>	Date Considered	<i>6/7/04</i>
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		First Named Inventor	Jonathan J. Hull		
		Group Art Unit	2173		
		Examiner Name	Unassigned		
Sheet	5	of	5	Attorney Docket Number	015358-007500US

XLB	63.	"Video Mail Retrieval Using Voice" Cambridge University Engineering Department Computer Laboratory and Olivetti Research Laboratory summary of research found at http://svr-www.eng.cam.ac.uk/research/projects/vmr/ (1997).	
XLB	64.	WACTLAR et al. "Complementary Video and Audio Analysis for Broadcast News Archives," Communications of the ACM, 43:42-47 (2000).	
XLB	65.	WACTLER et al. "Intelligent access to digital video: Informedia project," Computer 29:48-52 (1998).	
XLB	66.	WEISS et al. "Composition and Search with a Video Algebra," IEEE Multimedia 2:12-25 (1995).	
XLB	67.	WITTENBURG et al. "Browsing with Dynamic Key Frame Collages in Web-Based Entertainment Video Services," In Proceedings of IEEE International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence, Italy 2:913-918 (1999).	
XLB	68.	ZHANG et al. "Detection of text Captions in Compressed domain Video," International Multimedia Conference Proceedings of the 2000 ACM workshops on Multimedia 2000, Los Angeles, California, United States pp. 201 - 204.	

Examiner Signature	X. L. Barfista	Date Considered	6/7/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number 10/001,893
Filing Date November 19, 2001
First Named Inventor Jonathan J. Hull
Art Unit 2173
Examiner Name Unassigned X.L. BAUTISTA
Attorney Docket Number 015358-007500US

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U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
XLB	1	6,182,090	01-30-2001	Peairs	715/500
XLB	2	6,101,503	08-08-2000	Cooper et al.	707/104.1
XLB	3	6,055,542	04-25-2000	Nielsen et al.	707/104.1
XLB	4	6,028,601	02-22-2000	Machiraju et al.	345/705
XLB	5	6,026,409	02-15-2000	Blumenthal	707/104.1
XLB	6	6,021,403	02-01-2000	Horvitz et al.	706/45
XLB	7	6,006,218	12-21-1999	Breese et al.	707/3
XLB	8	5,987,454	11-16-1999	Hobbs	707/4
XLB	9	5,950,187	09-07-1999	Tsuda	707/3
XLB	10	5,946,678	08-31-1999	Aalbersberg	707/3
XLB	11	5,943,679	08-24-1999	Niles et al.	715/526
XLB	12	5,873,107	02-16-1999	Borovoy et al.	715/501.1
XLB	13	5,870,770	02-09-1999	Wolfe	345/805
XLB	14	5,860,074	01-12-1999	Rowe et al.	715/526
XLB	15	5,857,185	01-05-1999	Yamamura	707/5
XLB	16	5,838,317	11-17-1998	Bolnick et al.	345/764
XLB	17	5,832,474	11-03-1998	Lopresti et al.	707/2
XLB	18	5,819,301	10-06-1998	Rowe et al.	715/513
XLB	19	5,784,616	07-21-1998	Horvitz	718/102
XLB	20	5,781,785	07-14-1998	Rowe et al.	715/513
XLB	21	5,778,397	07-07-1998	Kupiec et al.	715/500
XLB	22	5,761,655	06-02-1998	Hoffman	707/4
XLB	23	5,748,805	05-05-1998	Withgott et al.	382/306
XLB	24	5,737,599	04-07-1998	Rowe et al.	707/10
XLB	25	5,694,559	12-02-1997	Hobson et al.	345/705
XLB	26	5,680,636	10-21-1997	Levine et al.	715/512
XLB	27	5,638,543	06-10-1997	Pedersen et al.	704/1
XLB	28	5,596,700	01-21-1997	Darnell et al.	715/512
XLB	29	5,481,666	01-02-1996	Nguyen et al.	345/854
XLB	30	5,479,600	12-26-1995	Wroblewski et al.	345/787
XLB	31	5,442,795	08-15-1995	Levine et al.	345/775
XLB	32	5,418,948	05-23-1995	Turtle	707/4
XLB	33	5,404,295	04-04-1995	Katz et al.	707/2
XLB	34	5,384,703	01-24-1995	Withgott et al.	715/531

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Sheet 2 of 4

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XLB	35	5,349,658	09-20-1994	O'Rourke et al.	345/839
XLB	36	5,309,359	05-03-1994	Katz et al.	707/102
XLB	37	5,153,831	10-06-1992	Yianilos	715/531
XLB	38	4,823,303	04-18-1989	Terasawa	715/515
XLB	39	4,417,239	11-22-1983	Demke et al.	345/856

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FOREIGN PATENT DOCUMENTS

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XLB	40	EP	802 492	A1	10-22-1997	IBM Corporation		
XLB	41	EP	762 297	A2	03-12-1997	Sun Microsystems		
XLB	42	EP	737 927	A2	10-16-1996	Xerox Corporation		
XLB	43	EP	378 848	A2	07-05-1990	IBM Corporation		
XLB	44	EP	459 174	B1	11-20-1996	Cina		
XLB	45	GB	2 290 898	A	01-10-1996	Canon Business Machines, Inc.		
XLB	46	GB	2 234 609	A	02-06-1991	IBM Corporation		
XLB	47	GB	2 156 118	A	10-02-1985	Canon Kabushiki Kaisha		
XLB	48	GB	2 137 788	A	10-10-1984	Gavilan Computer Corporation		
XLB	49	JP	8-297677	A	11-12-1996	Xerox Corporation		

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X.L. Bautista

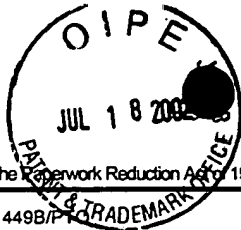
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Sheet 3 of 4

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Application Number	10/001,893
Filing Date	November 19, 2001
First Named Inventor	Hull, Jonathan J.
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007500US

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XLB	50	Acrobat Reader Version 2.0 (software application), Adobe Systems Incorporated, screenshots Figures 1-10 (1994).	
XLB	51	Adobe Acrobat Reader 3.0 screen dumps (fig. 1-3), (1996).	
XLB	52	Adobe Systems, Inc., "Adobe Photoshop 4.0 User Guide for Macintosh and Windows," pp. 30-31 (1996).	
XLB	53	Apple Macintosh system 7 reference manual, pages 30-31 (1991).	
XLB	54	BALL et al. "Software Visualization in the Large", IEEE Computer, 29: 33-43 (1996).	
XLB	55	BOGURAEV et al. "Salience-Based Content Characterisation of Text Documents," <u>Proceedings of the ACL/EACL Workshop on Intelligent [Sic] Scalable Text Summarization</u> , 1997. Topic identification, Discourse-based summarization. pp. 1-12 (1997).	
XLB	56	BRANDOW et al. "Automatic Condensation of Electronic Publications by Sentence Selection," <u>Information Processing and Management</u> , 31(5):675-685 (1995).	
XLB	57	GLIEDMAN "Virtual Office Managers," Computer Shopper, 18:290 (1998).	
XLB	58	GREENBERG et al., "Sharing fisheye views in relaxed-WYSIWIS groupware applications," <u>Proceedings of Graphics Interface</u> , Toronto, Canada, May 22-24, 1995. Distributed by Morgan-Kaufmann, Pp. 28-38, http://www.cpsc.ucalgary.ca/grouplab/papers/1996/96-Fisheye.GI/gi96_fisheye.html .	
XLB	59	HEARST et al. "TileBars: Visualization of Term Distribution Information in Full Text Information Access," <u>Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)</u> , Denver, CO., May 1995, Pp. 1-8, http://www.acm.org/sigchi/chi95/Electronic/documents/papers/mah_bdy.htm .	
XLB	60	HILL et al. "Edit Wear and Read Wear", ACM, pp. 3-9 (May 3-7, 1992).	
XLB	61	LANGLEY "An Analysis of Bayesian Classifiers," <u>Proceedings of the Tenth National Conference on Artificial Intelligence</u> , pp. 223-228, 1992.	
XLB	62	LANGLEY "Induction of Selective Bayesian Classifiers," <u>Proceedings of the Tenth National Conference on Uncertainty in Artificial Intelligence</u> , pp. 400-406, (1994).	
XLB	63	MANBER "The Use of Customized Emphasis in Text Visualization," <u>Proceedings of 1997 IEEE Conf. on Information Visualization</u> , pages 132-138, (1997).	
XLB	64	SCHWEIGHOFER et al. "The Automatic Generation of Hypertext Links in Legal Documents," <u>Lecture Notes in Computer Science</u> , vol. 1134, Wagner et al., eds., from 7th Int. Conf., DEXA 96', held 9/96 in Zurich, Switzerland (1996)	

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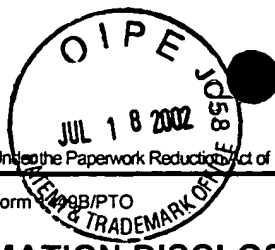
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Sheet 4 of 4

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First Named Inventor	Hull, Jonathan J.
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007500US

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XLB	65	SUMITA et al. "Document Structure Extraction for Interactive Document Retrieval Systems," <u>Proceedings of SIGDOC 93</u> , pages 301-310, (1993).	
XLB	66	TAGHVA et al. "An Evolution of an Automatic Markup System," <u>SPIE</u> , 2422:317-327 (1995).	
XLB	67	TAXT "Segmentation of Document Images," IEEE 11:1322-1329 (1989).	

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